

20010719.qrp v02_n255.qrl.20010719

Date: Thu, 19 Jul 2001 19:03:07 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2255

QRP-L Digest 2255

Topics covered in this issue include:

- 1) [103020] Re: OH0/OK2DA/P
by "Brian Murrey" <bmurrey@amexol.net>
- 2) [103021] OT: Misc notes from K7GT
by agtaylor@llnl.gov
- 3) [103022] Re: Floating counterpoise?
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 4) [103023] Big Wire
by <mjfitz@uswest.net>
- 5) [103024] OPERATING- Museum Ships Special Event Weekend
by n5ib@juno.com
- 6) [103025] Re: Verticals, Long wire, and qsb
by "James R. Duffey" <jamesd1@flash.net>
- 7) [103026] Is there a MOJO Claus?
by Shepherd@aol.com
- 8) [103027] Re: Verticals, Long wire, and qsb
by Bruce Muscolino <w6toy@erols.com>
- 9) [103028] Re: NN1G two-board transceiver
by "Dave Benson" <nn1g@earthlink.net>
- 10) [103029] Re: Big Wire
by Bruce Muscolino <w6toy@erols.com>
- 11) [103030] Re: The FT-817's niche
by "Caitlyn M. Martin" <ku4qd@qsl.net>
- 12) [103031] TEST N10DL
by N10DL@aol.com
- 13) [103032] Results: K1 Battery Test
by "N7SG K7FD" <k7fd@hotmail.com>
- 14) [103033] WTB Tech Manual
by Pete Burbank <plburbank@kih.net>
- 15) [103034] FW: CLUB: WestFLA QRP Meeting this Saturday, 21 July 2001
by "Stephen D. Cohen" <scohen@tampabay.rr.com>
- 16) [103035] Cub Fox Log (probably final) AA3UR
by "David Porter" <aa3ur@home.com>
- 17) [103036] Re: Half wave end fed question and LED SWR meter???
- by "Steven Weber" <kd1jv@moose.ncia.net>
- 18) [103037] RE: filter for digest
by muglesto@ecentral.com
- 19) [103038] Re: Color me back - from CO

- by mugglesto@ecentral.com
- 20) [103039] NEQRP CW Net, Thursday, 19 July, 8:30 PM EDT, 3.565MHz
by Chuck Ludinsky <cjl@mitre.org>
- 21) [103040] Re: Feedline...
by "Adrian Weiss" <aweiss@usd.edu>
- 22) [103041] Fw: Results: K1 Battery Test
by "Niels" <nkristja@cadvision.com>
- 23) [103042] Re: The FT-817's niche
by Bruce Muscolino <w6toy@erols.com>
- 24) [103043] test do not read
by Wayne <aa5jj@swbell.net>
- 25) [103044] Im back HD crash
by Wayne <aa5jj@swbell.net>
- 26) [103045] Re: The FT-817's niche
by "Mike Yetzko" <myetzko@insydesw.com>
- 27) [103046] RE: Big Wire
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 28) [103047] RE: WTB Tech Manual
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 29) [103048] Ed fed wires
by K5BDZ@aol.com
- 30) [103049] Re: Ed fed wires
by K5BDZ@aol.com
- 31) [103050] Re: Final Cub Fox Log from KD5KXF
by "Mike Malone" <mmalone@worldlogon.com>
- 32) [103051] Re: Horizontal Loops vs Alternatives
by "ss lyon" <sslyon@megalink.net>
- 33) [103052] Travel to DL
by ed.kwik@delphiauto.com
- 34) [103053] Re: W7Z0I end fed... Nice Work!
by "ss lyon" <sslyon@megalink.net>
- 35) [103054] Re: WTB Tech Manual
by William R Colbert <w5xe@juno.com>
- 36) [103055] Tuthill 2001
by "Bob Hightower" <nk7m@extremezone.com>
- 37) [103056] Re: Im back HD crash
by "Ingo DK3RED" <dk3red@t-online.de>
- 38) [103057] WTB: Rohn Tower Section
by Thomas Jennings <jennings@eznet.net>
- 39) [103058] WBR Errors
by bmurrey@amexol.net
- 40) [103059] Re: Feedline...
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 41) [103060] New Kit Offering
by "Bob Hightower" <nk7m@extremezone.com>
- 42) [103061] Re: Half wave end fed question and LED SWR meter???
- by "William H. Launer" <wlauner@mail.win.org>
- 43) [103062] Re: Half wave end fed question and LED SWR meter???

- by "Bill Jones" <kd7s@psnw.com>
- 44) [103063] Re: WTB Tech Manual
by "George, W5YR" <w5yr@att.net>
- 45) [103064] Re: New Kit Offering
by "Bob Hightower" <nk7m@extremezone.com>
- 46) [103065] Re: [Elecraft] Re: New Kit Offering
by "George, W5YR" <w5yr@att.net>
- 47) [103066] Re: [Elecraft] Re: New Kit Offering
by Phil Wheeler <w7ox@earthlink.net>
- 48) [103067] No Feed Line: end fed
by w0yse@juno.com
- 49) [103068] Radio Shack increasing prices on useful stuff...
by "Mark J. Dulcey" <mark@buttery.org>
- 50) [103069] Re: Coil, tuner, or vee?
by "Dan McLaughlin" <danmclaughlin@lycos.com>
- 51) [103070] Re: Half wave end fed question
by Arthur G Silvers <ags@ieee.org>
- 52) [103071] Zepp fed end fed wire
by ARDUJENSKI@aol.com
- 53) [103072] Re: Half wave end fed question
by Bruce Muscolino <w6toy@erols.com>
- 54) [103073] Re: Zepp fed end fed wire
by "Larry Spinner" <n2icz@hotmail.com>
- 55) [103074] Re: Zepp fed end fed wire
by "George, W5YR" <w5yr@att.net>
- 56) [103075] Re: New Kit Offering
by Phil Wheeler <w7ox@earthlink.net>
- 57) [103076] Re: Zepp fed end fed wire
by Bruce Muscolino <w6toy@erols.com>
- 58) [103077] Re: Zepp fed end fed wire
by ARDUJENSKI@aol.com
- 59) [103078] Trade Unbuilt NC-20 for HW-qrp or PM-qrp
by mitchell Brad <n8yg@yahoo.com>
- 60) [103079] Re: Coil, tuner, or vee?
by Stephan Greene <sgreene@patriot.net>
- 61) [103080] CQC Great Colorado Goldrush-Low Down Date Correction
by "AB0CD" <ab0cd@uswest.net>
- 62) [103081] I'm using the "EIGHTY EIGHT" Antenna...
by "ss lyon" <sslyon@megalink.net>
- 63) [103082] CQC NUMBER IS A MULTIPLIER IN THE GOLDRUSH
by "AB0CD" <ab0cd@uswest.net>
- 64) [103083] Zepp fed end fed: Does J-POLE ring a bell?
by "ss lyon" <sslyon@megalink.net>
- 65) [103084] [CONTEST] QRP Contest Calendar - July 19/31
by Ken Newman <N2CQ@citnet.com>
- 66) [103085] Re: Results: K1 Battery Test
by Larry Cahoon <lejek@erols.com>
- 67) [103086] Re: Results: K1 Battery Test

- by "N7SG K7FD" <k7fd@hotmail.com>
- 68) [103087] End fed half wave and Zepps
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 69) [103088] HP Calculators
by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
- 70) [103089] RE: New Kit Offering
by "Bob Hightower" <nk7m@extremezone.com>
- 71) [103090] Final transistors for the Ten Tec 50x class transceivers
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 72) [103091] toroids vs. air core, auto transform vs. link
by "Stuart Rohre" <rohre@arlut.utexas.edu>

Date: Wed, 18 Jul 2001 18:01:38 -0500
From: "Brian Murrey" <bmmurrey@amexol.net>
To: <lhlousek@nvhbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [103020] Re: OH0/OK2DA/P
Message-ID: <004201c10fdd\$9b0e9de0\$83532bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Lou,

That is very interesting. I don't have a K* rig yet but I notice that when I shake my rubber voodoo chicken over my Norcal, I seem to have better results. I'm not sure if it's the rubber chicken or the fact that I am wearing a orange and green speedo, and balancing on one foot, while standing on a common garden variety folding chair....while vigorously chaking my chicken and chanting "show me the money".

I'll do some more research. I'm thinking about putting my speedo pics on my web site but the XYL is not real happy about that....I'm sure it's her own pride and not shame.

73

----- Original Message -----
From: "lhlousek" <lhlousek@nvhbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, July 18, 2001 9:59 AM
Subject: Re: OH0/OK2DA/P

> <<<My question is, did the mojo from the K1 sitting next to the 817 make
> the QSO
> happen? No, I don't think I want to open that can of worms.>>>
>
> Too late. What you were experiencing was mojo flux leakage. Under
> certain circumstance the one-turn flux leakage from the toroids in the
> K1 can constructively interfere to form a CFMA (Cross Field Mojo
> Antenna), (which doesn't require a ground or counterpoise) and irradiate
> adjacent equipment with TEM (transverse Elecraft-Mojo) waves. You're
> lucky you didn't blow the finals in that 817!
>
> Lou W7DZN
>
>

Date: Wed, 18 Jul 2001 16:09:30 -0700 (PDT)
From: agtaylor@llnl.gov
To: qrp-1@lehigh.edu
Subject: [103021] OT: Misc notes from K7GT
Message-ID: <200107182309.QAA27499@poptop.llnl.gov>
MIME-Version: 1.0
Content-Type: TEXT/plain; CHARSET=US-ASCII

Misc notes from K7GT.

I did not sell either my K1 or K2 but will be adding tuners and other options to them. The K2 will become the designated 2nd radio once I get the PA and I/O in it. The K1 with KAT1 will be the radio of choice on all but extreme lightweight backpack trips.

Next trip is Sequoia Park July 28-31. Will be BB 56 but likely not in a choice spot. Please look for me on 40m as I will have only the K1.

The contest call I occasionally use has been changed: AE6TT is out
K6TTX is in.

Received a batch of QSLs from the bureau yesterday. Not QRP: delete now if you are offended...

Got a card from V51AS confirming 40, 20, 15, and 10m contacts. I had thought he was living off of green stamps. The address in QRZ is correct but you need his last name to QSL safely via green stamps and a SAE. Patience is the key here: in spite of a green stamp, it came via the bureau system. If necessary, contact me and I will find his name from on his card. The other card, MD/DL7..., puts me at 151

confirmed on 40m. I thought the day would never come. CW tally now is 207 confirmed. No, I don't have a site overlooking the Pacific. If anything, the ridge to the SW blocks the very low angle stuff to that direction (thus no Heard Island was worked).

end OT no QRP content material.

A tribander and tower (tubular) were given to me recently by a local ham. When I get a base appropriate set up, 'GT will be back on from home in earnest. Look out 'FRP...

I would like to hear from anyone on the reflector with REAL experience with vertical arrays on 40m. In particular, I am considering a 40m 4-square, either driven or parasitic, against other possible vertical array configurations. I have been through ON4UNs book and the material in the ARRL Antenna book by W7EL already but need some added REAL reference points before I start cutting steel and pouring concrete up at dad's in Oregon.

73 K7GT BB 56

--

Allan G Taylor

agtaylor@llnl.gov

Date: Wed, 18 Jul 2001 16:16:19 -0700
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "'ARDUJENSKI@aol.com'" <ARDUJENSKI@aol.com>, "QRPL (E-mail)" <qrp-
l@lehigh.edu>
Subject: [103022] Re: Floating counterpoise?
Message-ID: <1D74B9231259D511B1AA0002B32C2896150AFB@az10exm06.sat.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

>Arnie Corso's C02KK website discusses a "floating counterpoise" for an
>Inverted-L and alluded to providing more details but this was over a year
>ago. I have not been able to contact him by email for clarification. Maybe
>someone here in the group may be able to explain this set up

>"Using the inverted "L" for transmitting, does require the installation of a
>good ground system or a "floating counterpoise", a device coming from the
>early days of radio that provides an amazing improvement in performance of

>many antennas... More about the "floating counterpoise" soon right here at
<this WWW site..."

Alan:

I think the reason for this is to reduce the ground losses for the near field of the antenna.

The antenna pattern is a combination of the direct ray from the antenna and the reflected ray from the ground, and if the ground is lossy (like it is here in Phoenix), the loss can adversely affect the lower angles of radiation.

Likewise, the gain of antenna must be affected also, since the transmit power absorbed by the lossy ground is simply wasted power.

However, it seems to me that for an antenna of any reasonable height above ground, this counter poise would need to extend a long ways in order to affect radio waves at lower angles of radiation. This required size seems a bit unreasonable for most hams.

On the other hand, if you were trying for good local coverage using NVIS, then you are only concerned about ground reflections right under the antenna, and a floating counterpoise might not have to be all that big.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPion

Date: Wed, 18 Jul 2001 19:40:11 -0500
From: <mjfitz@uswest.net>
To: qrp-l@Lehigh.EDU
Subject: [103023] Big Wire
Message-ID: <3B562C6B.BD468D9A@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just put up a 100 meter doublet fed with twinlead at 30 ft (low end) to 40 ft (high end). That's 335 ft of no 16 aluminum fence wire now over my tomato garden at the old deserted family farmstead. It's a sloper...that is, the wire runs nearly north-south, from a tree at the bottom, up the hillside to the top of a walnut tree at the crest of the hill. It's great to have such a quiet antenna out in the country away from computers and power lines, and it seems to

have some gain on the higher bands. Except directly north, the low take-off angles are pretty much unobstructed as it lays.

Sunday morning I worked a few Europeans with 10 W SSB and could hear one guy (think he was an "OD", Lebanon) on 12 meters clearly calling "cq usa" on ssb for a long time and nobody was working him. VKs and ZLs come in later in the evenings on the higher bands. I just set the rig on a little table in the garden with an amplified speaker while pulling the weeds around the tomatoes and green beans...and wait for the dx to roll in and the veggies to get ripe.

Last night a big storm blew up from northcentral husker land and came this way while I watched from the garden. Huge lightning storm... As it approached, the K2 suddenly started gettin' goofy and jumping frequency... figuring it was NOW time to disconnect the wire and keeping my fingers away from the bare wire and connectors I dropped it to the ground, where it produced a spark about 2 inches long TO the ground. As the bare ends lay on the ground they sizzled and sparked like dud fireworks... got some water and poured around it so the dead grass wouldn't catch fire. Hot antenna, huh..?

Mike NOMF
Missouri Valley IA

Date: Wed, 18 Jul 2001 20:41:09 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [103024] OPERATING- Museum Ships Special Event Weekend
Message-ID: <20010718.193624.4647.0.n5ib@juno.com>

the USS Salem ARC sponsors the annual Museum Ships on the Air event. See

<<http://www.qsl.net/k1usn/event.html>>

for complete details.

The gist is that more than 50 museum ships around the world - warships, freighters, paddle wheelers, lightships, tall ships, and more - will be on the air for various intervals between 0001 Z July 21 until 2359 Z July 22. That's 7:01 pm CDT Friday July 20 until 6:59 pm CDT Sunday July 22. Mostly ssb and mostly QRO. Some cw and even some AM with original gear

will be evident.

A special certificate is offered by USS Salem ARC for contact with 6 or more ships, and special awards for the most ships worked - both for phone and for cw.

We of W5KID, the USS Kidd ARC - the top ship of the museum fleet in QSO's made last year - will be on most of the 48 hours with two or three stations - except maybe the Sunday mid watch :^)) Look for us just up from the lower edge of the general phone band, mostly on 20, 15, and 10. I hope to run some QRP CW near the QRP spots on 20 and 15, and maybe 30 and 40 later at night (yep 30 - it's not a contest, just a commemorative event) We have packet capability and I'll try to post to the dx cluster from time to time, but no ready e-mail from the ship.

As always, QRP-L'ers who work the Kidd can QSL direct to me and skip the usually requested SASE. We have a nice color picture QSL, and I always enclose a brochure about the ship.

So, shiver your timbers and belay your boom vangs, see you on the air
Fair winds and following seas

72

Jim N5IB

for W5KID

USS Kidd ARC, Baton Rouge LA

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<http://dl.www.juno.com/get/tagj>.

Date: Wed, 18 Jul 2001 18:47:15 -0600

From: "James R. Duffey" <jamesd1@flash.net>

To: <qrp-l@lehigh.edu>, <hoglund@wfu.edu>

Subject: [103025] Re: Verticals, Long wire, and qsb

Message-ID: <B77B8A31.B725%jamesd1@flash.net>

Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit

Ken - While I am not a pro, that is I don't get paid for operating, I do put a dollar bill in a cup every time I operate. This provides me with a ham fest fund and encourages me to operate.

Having said that, I have a few suggestions for weak signal reception. First, it is an acquired skill, so practice is a must. Work weak stations and you will get practice at it. Here are a few hints.

1. Wear headphones. Headphones add 3 to 6 dB to your ability to copy weak signals. No kidding. Get a good pair. I like the closed ear type and use an old pair of Koss PRO-4As and Yaesu communication headphones. These help shut out the room noise and get the signal closer to your brain. It helps, try it.

2. Turn off the AGC. AGC tends to increase the noise when the signal fades and has a lag time that also reduces the signal to noise ratio when the signal is coming out of the noise. To help weak signal copy, turn off the AGC, reduce the RF gain, and increase the AF gain. This will help with weak signals.

3. Use narrow filters. Supplement your narrow IF filters with a good narrow audio filter. With weak signals in the absence of strong signals, and no AGC, narrow audio filtering is as good as narrow IF filtering. Some DSP filters have excellent noise reduction filters which also help. I have copied weak signals at 100 Hz bandwidth that I could barely tell were there with a 500 Hz bandwidth. You can get good narrow audio filters at ham fests. I suggest the MFJ CWF-2, any DaTong, the Bencher, and the Timewave 9. If you can get rid of the hum an Autek QF-1 or QF-1A is also pretty good.

4. Get rid of local noise sources. My furnace puts out a bit of noise on 40 M, hence during the winter fox hunts I turn the thermostat down so the furnace won't kick on and cause QRN if the fox is weak. If I work the fox early nobody notices. If it takes a while, and the weather is cold, I have to put up with a bit of local QRM. I do the same with the one lamp dimmer that escaped my careful planning during house building. Turn it off and make sure that there are plenty of other lights on in the area. The key is to keep family relations good. You get the picture. In the summer I suppose that some attention should be paid to air conditioners and lawn mowers. If the neighbor is mowing his lawn offer him a six pack to put it off until you have worked the fox.

5. Having two different antennas for receive helps as you have found out. Getting an antenna higher and away from local noise sources also helps.

These are some hints that you can try to make weak signal copy easier. I hope that they help. Happy operating. - Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Wed, 18 Jul 2001 21:20:44 EDT
From: Shepherd@aol.com
To: qrp-1@lehigh.edu
Subject: [103026] Is there a MOJO Claus?
Message-ID: <b9.10e36587.28878fec@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Sorry for the goof up, never cut-paste from Word to AOL. :-)
=====

Dear Virginia,

>From time to time we all wonder this. Is there really such a thing as "MOJO"?
As we mature in years we all too often grow cynical and lose that wonderful
innocence that makes life a wonderful thing to a part of.

The answer to your question is not easy, for you see MOJO is different things
to different people.

For some it's simply "being in the right place at the right time", while to
others it's a wonderful thing that ties together special moments and people
together.

For most of us it's that special feeling we get when something wonderful
happens to us.

An example would be, you need one more country for DXCC/QRP. For the last two
years you have worked, and worked to achieve this goal but to no avail. After
talking to several of your buddies, and hearing wonderful things about the K2
and it's so called "MOJO", you break down and get one! You figure what the
heck, it's worth a try.

So you're sitting in your shack listening to far off signals just before
sunset (local time, not UTC). You have read on the ARRL DX wire that P5xx,
North Korea is active this month on 20 meters CW and you have not worked that
country. Sitting there in your comfy shack, quietly spinning the knob on your
K2 you hear very little in the way of signals, when near the bottom of the
band you hear the familiar din of CQ DX CQ DX de P5xx calling! Your heart
races, your pulse quickens as you grab the key and fire off your call. You
sit there, your ears tuned, your mind racing a mile a minute when you hear
your call being sent back "W8xx de P5xx tu 559! You fire back, P5xx de W8xx
tu om ur 599 oh btu."

He sends back a welcome message that he needs your country for an award and
asks if you would please QSL to his stateside manager! WOW!

Now, was this simply being at the right place at the right time, or was it

something more. Did getting the new K2 make the planets line up in your favor with it's "MOJO"? Or as some would say, "it's just blind luck, don't get excited". Well, call me a romantic, call me dolt, or what ever you like, I know it was the MOJO!

So in closing,
YES VIRGINIA, THERE IS A MOJO CLAUS!

72, 73, oo's
Dan, N8IE Kettering, Oh
"God speed Dale, rest in peace"

Date: Wed, 18 Jul 2001 21:35:25 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [103027] Re: Verticals, Long wire, and qsb
Message-ID: <3B56395D.58A223A7@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim,

All good points, but some of them are difficult to do in a contest.
Often you don't have time to bring several filters to bear! Practice is the most important part.

73

Date: Wed, 18 Jul 2001 21:41:23 -0700
From: "Dave Benson" <nn1g@earthlink.net>
To: <w3irz@att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [103028] Re: NN1G two-board transceiver
Message-ID: <004c01c1100d\$119cea00\$7a53d03f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mike-

>>-----Original Message-----

From: Mike Branca <w3irz@att.net>

<snip>

I ended up making two basic changes (other than RIT) to my two board XCEIVER. First I used MV1662 varactor diodes (from Hosfelt) in the crystal filter to replace the capacitors to add the variable bandwidth feature (real slick). The second was a design error that put the output of the MC 1350 into the low impedance winding of the IF coupling transformer. This act virtually kills all the gain that is possible from the '1350. <<

<snip>

That was no error. It set the termination impedance for the MC1350 to a few hundred ohms. While that device is indeed capable of another 20 dB of gain into a very high impedance, not everyone had your luck with the modifications. At least with that layout, the IF stage was prone to 'taking off' without some resistive loading. I believe the gain in the 'as-published' configuration was about 30 dB, still somewhat better than no stage gain.

/ NN1-who?

73- Dave Benson, K1SWL

Date: Wed, 18 Jul 2001 21:38:19 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: mjfitz@uswest.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [103029] Re: Big Wire
Message-ID: <3B563A0B.45E26C86@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sounds like a great antenna. Does the slop affect the pattern? I know the pattern will already be screwed up because of the length, but slopers tend to do best in the direction they're sloping. What are you using for a feedline? Hope your radio got disconnected before it got damaged!

73

Date: Wed, 18 Jul 2001 22:03:19 +0000
From: "Caitlyn M. Martin" <ku4qd@qsl.net>
To: Bruce Muscolino <w6toy@erols.com>
Cc: ku4qd@qsl.net, qrp-1@Lehigh.EDU
Subject: [103030] Re: The FT-817's niche
Message-ID: <20010718220319.28c13fdf.ku4qd@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Bruce,

You completely missed the point I was trying to make, and completely misinterpreted my post.

>

> Well I guess the last 20 years of running QRP 95% of the time don't
> count for anything! Having been one of the first to own and operate a
> TS-120V way back in 1978 apparently means I don't like QRP. Being of of
> the first to buy and use a TS-130V, way back in 1980 apparently does not
> mean anything.

It means a lot. I was pointing out that the FT-817 was designed for QRP/portable (emphasis on the word *portable*) operation, and that an IC-706IIG is not well suited for that at all. The FT-817 is ideally suited for *portable* use. Well...not ideally. It still consumes the batteries too quickly, just not as quickly as an IC-706IIG would.

>

> Ms. Martin, I am a ham radio operator.

Me too.

> I believe in using the minimum
> power necessary to make the QSO.

Me too. No disagreement.

> I have adequately demonstrated QRP
> with DXCC, WAS, and, of course WAC, plus numerous contest placing.
> Please refrain from telling me (and the world) that I don't like to run
> low power!

I did *not* say that at all! I said that your interest doesn't seem to be in portable operation. Did I get that wrong???

Please reread my post. I was neither pontificating nor slighting you.

73,
Caity

KU4QD

Date: Wed, 18 Jul 2001 22:13:32 EDT
From: N10DL@aol.com
To: qrp-l@lehigh.edu
Subject: [103031] TEST N10DL
Message-ID: <53.8d1efca.28879c4c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

testing to see if my HTML is off.
Aron

Date: Wed, 18 Jul 2001 19:31:42 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-l@Lehigh.EDU
Cc: elecrafft@qth.net
Subject: [103032] Results: K1 Battery Test
Message-ID: <F120veR6IHupeyyfIIh00000faa@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Well, the mad scientist is at it again at K7FD. The battery torture chamber has been very active this week...and I have some VERY unofficial results from the labor-a-tory. But first, if you haven't yet read Wayne N6KR's take on the 8 vs 10 NiMH cell's for powering a K1, please take a moment to visit <http://www.teleport.com/~cqdx/turbo.htm> and read what he has to say. His points are valid and your style of operating comes into definite play...

...ok, N6KR disclaimer out of the way, here's what I did and what I found. Tuesday morning, I stuffed **10** fresh 1600 NiMH cells in K1/52 at 7am. Unplugged my key, turned on the rig to 14.060MHz, put headphones in the jack, and set AF at 9am. Then I went to work. The radio stayed ON while I was away.

At noon, I ran home, set my power to 3.5w, popped the key in, called CQ 3 times with no takers. Time to go back to work, so again left the rig ON. At 5pm, I got on the radio and began my 'normal' evening radio activities... I had 5 - 8 ragchews throughout the evening, most in the 10 - 20 minute category. Several of you commented on reading the 'battery' thread ;) Then at ***9:20pm***, the 10 pack of batteries died...(i.e., no frequency stability on transmit).

So, I got about 14 and half hours of continuous operation, mostly listening...but with a flurry of transmitting in the evening hours.

Now for **8** battery torture test/comparison Part II:

This morning I went through the same exact fire drill at 7am, but this time with 8 (not 10) fresh 1600mAh cells. Same deal, go off to work, then a few 3.5w cq's on my lunch break but no takers. I get home tonight, and at 5pm start calling CQ...immediately in the log, Dan N0BN/m with a very short qso due to QSB. Then Mike KD5KXF for a short hello. After a brief break for dinner, Dan N0TK answers my CQ. Then at ***6:20pm*** ...bingo... instability and the batteries are below usable voltage on transmit. In fact, I was in mid qso w/ Dan N0TK when he tells me I'm 'chirping'...I double checked the voltage drop on transmit, & sure enough I'm toast. I switched to the K2 and completed the qso.

OK, so what does this test tell me? It tells me 10 cells are better in THIS test, which is NOT REALLY indicative of the way I would operate my radio on batteries in the field! Also, I kept the output at 3.5w for both 8 and 10 cells, a smidge high for 8 cells (for max efficiency). On the other hand, it's awfully hard not to see that the 10 cells went a LOT further (3 hours) in this limited test. Maybe at 2w instead of 3.5w, the 8 cells would have lasted another 3 hours? Variables abound, apples vs oranges, too...however, in both tests my evening operating habits were nearly identical. It was quite obvious to me, my evening operating was cut short with the 8 cells. I was just getting underway when the bottom dropped out, so to speak. Maybe if the transmit drain was more 'evenly' expended throughout the day, the difference would not have been so great. I'll leave that one up to the experts.

In the meantime, I'm charging my new 1800mAh cells as we speak ;)

73 John K7FD

Notes: (K1 keydown voltage readings throughout the day)

Time	Keydown V (10 cell)	Keydown V (8 cell)
7:00am	12.6	9.9
12 noon	11.9	9.4
5:00pm	11.7	9.2
6:00pm	11.3	9.0
6:20pm	-	8.2-7.5...
7:00pm	11.1	
8:00pm	10.8	
9:00pm	8.8	
9:20pm	8.2-7.5...	

PS. One unrelated HUMOROUS OT note. Last night I qso'ed Steve WD9FJL...and

mentioned I was going to the DX convention in Seattle. Then he came back and said he was going to the DQ convention in Nashville. ? I thought he made a sending error...but no, he's the Dairy Queen rep for New Mexico!

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 18 Jul 2001 22:54:03 -0400
From: Pete Burbank <plburbank@kih.net>
To: qrp-l@lehigh.edu
Subject: [103033] WTB Tech Manual
Message-ID: <5.0.2.1.0.20010718224139.00a9aec0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I need a manual for a Tektronix 5L4N Spectrum Analyzer plug in.
Any body have one FS or know of a good source.
One of my goals in life is to discover the Black Hole where all missing tech manuals reside.
A place I worked ordered a document shredder.How do you think they tested the shredder?
Duh!
73 To All
Pete NV4V Kentucky
PS I think the black hole may also contain GDO coils. :-)

Date: Wed, 18 Jul 2001 23:01:59 -0400
From: "Stephen D. Cohen" <scohen@tampabay.rr.com>
To: "QRP-L Mailing List" <qrp-l@lehigh.edu>, "Jim Huhta" <aa4md@amsat.org>, "Jim Gerhart" <kd4rml@gte.net>, "Warren Elly" <w1gud@tampabay.rr.com>, "Garry Allen" <k4cyc@hamclub.org>, "Sean Dougherty" <kg4evw@arrl.net>, "Lee Seeley" <w4ckt@arrl.net>, "Brian Wenholz" <af4sr@hamclub.org>,
Subject: [103034] FW: CLUB: WestFLA QRP Meeting this Saturday, 21 July 2001
Message-ID: <NDBBJALMDCJHFFPJMMFKOEDNFNAA.scohen@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Ladies and Gentlemen,

The next meeting of the Western Florida QRP Club (WestFLA)

will be held this Saturday, the 21st of July at the Tampa Amateur Radio Club (TARC) clubhouse in Tampa, FLA. The meeting will begin about 10 AM local time (1400 UTC) and will end when everybody has had enough.

The meetings are run on the NorCal structure, or put another way, without structure. Folks just turn up and show off their projects, or put them on the air (The TARC clubhouse has a BIG KLH tri-bander and a GAP Vertical) or lie about the DX that got away or show off pictures of the grand-kids or get help with a kit or aligning a radio or whatever. Someone will bring donuts and coffee will be provided (somehow). The TARC facility is nice this way, as they have a full kitchen.

For directions to the TARC clubhouse, simply have a look at:

<http://www.qsl.net/westfla>

You will find a link there to the TARC web page and directions to the clubhouse. The web page also has some pictures from our first meeting, if you would like to get a feel for how they run. If you are interested in attending and you are web challenged, just drop us a line at westfla@qsl.net and we will e-mail directions your way.

I will bring a signal generator, counter and oscilloscope, so if you need help aligning a recent project or debugging something, we will have the correct tools. I can probably even be of some help myself, though I suspect that Mike Maiorana will be more helpful in most debugging ventures. Either way, we can provide some help.

Since I have finally provided Mac with his Direct Digital Synthesis kit from my friends in NJ, perhaps Mac and I will get started with it this Saturday. This kit produces any frequency from about .1 Hz on up to 60MHz with ease. It contains some cuts and jumpers and some surface mount parts, so maybe Mac and I will get started on putting it together. Mac?

In addition, I will continue to help Mac with his NoGA PIG rig. Of course, DXing with the club big hootie tri-bander and your QRP rig is always a treat. Last month I worked Luxemburg, Germany and Belgium in about ten minutes with my K2 at 5W.

This Saturday we will also have a very special door-prize: One of the Ft. Smith QRP Group Iambic Paddle/TiCK Keyer Kit. See it on the NorCal web page. <http://www.fix.net/~jparker/norcal.html> (NOTE: Door prize subject to minimum attendance at the sole discretion of whoever)

Now you know what *I'm* going to bring, what are you going to

bring? Well, enough blathering, it's time to get this message out to the world. Hope to see you on Saturday.

73,

Steve, NF4X

Date: Wed, 18 Jul 2001 23:16:42 -0400
From: "David Porter" <aa3ur@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [103035] Cub Fox Log (probably final) AA3UR
Message-ID: <006a01c11001\$3c51f3a0\$927ba8c0@jamison1.pa.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jim emailed me. When I saw his call, I realized that I had indeed copied it. My inexperience with the 2x1 calls had me trying to fit KJ0C into K10C which I knew wasn't right. Since this is more a lack of interpretation of what I received rather than ESP, I feel justified in awarding Jim his pelt.

Time	Call	RST	SPC	Name	Pwr
0338	KJ0C	229	MO	JIM	5
0355	K0EVZ	55N	ND	DOC	5
0356	K4FB	53N	FL	PAUL	5
0359	VE1MT	33N	NOVA SCOTIA	LAYTON	5

I won't be able to make any other corrections until Tuesday next week, so this is probably the final log!

Thanks again for the fun, and here's hoping for a better hunt next time,

David Porter
aa3ur@home.com
AA3UR

Date: Wed, 18 Jul 2001 23:02:27 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [103036] Re: Half wave end fed question and LED SWR meter???
Message-ID: <200107190333.f6J3Xdb20571@wolf.ncia.net>

MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> Hi all,
> Results are now on the web at www.easystreet.com/~w7zoi
> 73, Wes, W7ZOI
>
Intersting results Wes.

It would also be interesting to make some relative field strength measurments, to see if there is any noticable differences between using and not using a counter pose and possibly different types of ATUs, such a link / tap coupled vs cap coupled tuner.

72,
Steve, KD1JV in the White Mountains of New Hampshire
"Melt Solder"
<http://www.qsl.net/kd1jv/index.html>

Date: Tue, 17 Jul 2001 21:58:40 -0600 (MDT)
From: muglesto@ecentral.com
To: schoon@amgt.com
Cc: qrp-l@Lehigh.EDU, muglesto@ecentral.com
Subject: [103037] RE: filter for digest
Message-ID: <Pine.LNX.4.10.10107172157190.1179-1000000@mugleston.mugs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks but you missed the DIGEST part - I don't always get 1,000,000 files a day from the L but just one BIG file (the digest). It would be nice if it could be ordered so that it was internally sorted by subject before it arrived.

Thanks for the thought

Brad Mugleston, KI0OT
Aurora, Arapahoe Cty, Colorado
DM79oq 39.692500N 104.802600W
CQC #170, QRP-L #316, NorCal #2934

On Tue, 17 Jul 2001 schoon@amgt.com wrote:

> Most email clients can filter based on subject... Almost all default to

> date/time, but should be easily reconfigured.
>
> HTH
>
> .mark
>
> >-----
> >From: mugglesto@ecentral.com[SMTP:mugglesto@ecentral.com]
> >Sent: Monday, July 16, 2001 4:39 PM
> >To: Low Power Amateur Radio Discussion
> >Subject: Re: filter for digest
> >
> >Almost as good would be having the digest sorted by subject so you could
> >block skip the bad stuff
> >
> >Brad Mogleston, KI00T
> >Aurora, Arapahoe Cty, Colorado
> >DM79oq 39.692500N 104.802600W
> >CQC #170, QRP-L #316, NorCal #2934
> >
> >On Mon, 16 Jul 2001, Hartwell, Martin wrote:
> >
> >> Hi
> >>
> >> Is there anyway to request a filter be put on the digest. I may just decide
> >> to
> >> change over from reading the digest to reading all messages as they come in
> >> just so I can filter out the undesirables
> >>
> >>
> >> Marty Hartwell
> >> KD8BJ
> >>
> >>
> >
> >
> >
> >
> >
>
>

Date: Tue, 17 Jul 2001 22:12:16 -0600 (MDT)
From: mugglesto@ecentral.com
To: "Paul Harden, NA5N" <na5n@rt66.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [103038] Re: Color me back - from CO
Message-ID: <Pine.LNX.4.10.10107172207240.1179-1000000@mugleston.mugs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Paul,

I guess you didn't read about the t-Rex that will be going on next time you come through. They will be making I-25 wider but first it has to be narrower. It won't be as bad as Boston but it's not going to be pretty - there are TWO ways to go around you can take 470 and go around clockwise or counter-clockwise and end up on I-25 again but on the north side of town. If you go CCW stop by my house and I'll ride up with you.

Sorry I missed you but I had my two little ones with me and while they enjoyed Rod and his kit presentation they wanted to get out and play before your turn.

see ya next year,

Brad Mugleston, KI00T
Aurora, Arapahoe Cty, Colorado
DM79oq 39.692500N 104.802600W
CQC #170, QRP-L #316, NorCal #2934

On Tue, 17 Jul 2001, Paul Harden, NA5N wrote:

> Except PLEASE do something about that I-25 traffic getting through Denver.
Between the traffic and downpours and hail, I remembered what traffic and weather is like -hi.

>

> Thanks again to all,
> 72, Paul NA5N

>

>

>

Date: Thu, 19 Jul 2001 00:57:28 -0400
From: Chuck Ludinsky <cjl@mitre.org>
To: neqrp@jonal.net, qrp-l@lehigh.edu
Subject: [103039] NEQRP CW Net, Thursday, 19 July, 8:30 PM EDT, 3.565MHz
Message-ID: <3B5668B7.EDA68852@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The New England QRP Club's WQ1RP CW net meets again Thursday night, 19 July 2001, at 8:30 PM EDT (0030Z, 20 July 01) on or near 3.565 MHz. Net control operator for this week's 80M session will be Dennis, K1LGQ, operating from Brookline, NH.

72 DE K1CL,
Chuck

Date: Thu, 19 Jul 2001 07:17:11 GMT
From: "Adrian Weiss" <aweiss@usd.edu>
To: ka0gkc@arrl.net
Cc: qrp-l@lehigh.edu
Subject: [103040] Re: Feedline...
Message-ID: <GGPFZA01.Z9N@mail.usd.edu>

Hi Cla:

Boy, this is a great idea! I've got a 30m dipole up right now fed with that el-cheapo clear RS 300ohm, and takes a bit of work to make a "T" out of available materials just to connect feedline and ant. I just made another dipole the same way a couple of days ago. So, I'll have to wait to capitalize on your ingenuity for a while...

Scissors might be difficult. I'd position two nails the width of the twinlead on a board, then position the tip of one of those orange-handle razors between them, and just pull the twinlead thru -- perfect straight cut. Nails = guides.

"Might I suggest you purchase the cheapest 300 ohm twinlead you can find and use a good heavy duty scissors to cut it down the middle for the 40 meter dipole. This will have much lower loss. In the future you can add a little balanced tuner such as the Z-match and use the antenna as a multiband antenna."

72, Ade

Date: Wed, 18 Jul 2001 23:25:19 -0600
From: "Niels" <nkristja@cadvision.com>
To: "QRP-L" <QRP-l@Lehigh.EDU>
Subject: [103041] Fw: Results: K1 Battery Test
Message-ID: <003101c11013\$34475e40\$598b94cf@niels>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey,

Are those "AA" size, and if so where did you get them and at what prize?

72 de Niels
VE6NJK
Calgary, AB

Vi Minore, Plus Gaudium

>
> In the meantime, I'm charging my new 1800mAh cells as we speak ;)
>
>

Date: Thu, 19 Jul 2001 03:34:17 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: "Caitlyn M. Martin" <ku4qd@qsl.net>
Cc: qrp-1@lehigh.edu
Subject: [103042] Re: The FT-817's niche
Message-ID: <3B568D79.288D9EFE@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Caitlyn,

Since I took up residence in this wheelchair four years ago it is true that my interest in portable operation has diminished, I wonder why. It is, and has never been a secret that I am in a wheelchair. It is and has never been a secret that I really don't think I have to take my radios out to play. There are other ample reasons to go outside.

73

Date: Thu, 19 Jul 2001 04:02:49 -0500
From: Wayne <aa5jj@swbell.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [103043] test do not read
Message-ID: <000001c11032\$63b1f220\$d761fea9@Wayne>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

test

Date: Thu, 19 Jul 2001 05:28:03 -0500
From: Wayne <aa5jj@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [103044] Im back HD crash
Message-ID: <000f01c1103d\$7e0e4b40\$d761fea9@Wayne>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hello QRPers had a HD crash and lost everything I had so will be starting
all over getting mail address IF anyone sent me something and you want to
reply to me again please do so I lost everything.
73 God bless
Wayne AA5JJ

Date: Thu, 19 Jul 2001 06:57:32 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w6toy@erols.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [103045] Re: The FT-817's niche
Message-ID: <004101c11041\$b2eed600\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bruce...

You just need more power!!

Convert that wheelchair to a 4x4!! Hey, you KNOW it'd
be a novelty! You could ride over other wheelchairs at
the shows! A wheelchair 'BigFoot'!

And once you get more power, then you KNOW you can put on a big antenna! AND now have no problem powering that 706... (Opps, sorry, this is supposed to be QRP!)

Sorry, I'm in a strange mood this morning...

Mike

----- Original Message -----

From: Bruce Muscolino <w6toy@erols.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Thursday, July 19, 2001 3:34 AM

Subject: Re: The FT-817's niche

> Caitlyn,

>

> Since I took up residence in this wheelchair four years ago it is true
> that my interest in portable operation has diminished, I wonder why. It
> is, and has never been a secret that I am in a wheelchair. It is and
> has never been a secret that I really don't think I have to take my
> radios out to play. There are other ample reasons to go outside.

>

> 73

>

Date: Thu, 19 Jul 2001 07:57:07 -0400

From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>

To: "'mjfitz@uswest.net'" <mjfitz@uswest.net>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>

Subject: [103046] RE: Big Wire

Message-ID: <078F21595FA7D411B87B00805FA728E64A494B@atlexc02ntms.hboc.com>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

This brings up the BIG point that people forget about... If you are using a long wire antenna, use a RF Choke (RFC) to ground to keep the potential of the antenna at ground level. It saves people and equipment. If you have a VTVM or high Z volt meter, connect it between the antenna and ground when a storm is "in the area". You can watch the voltage on the antenna rise and

change polarity if you set it for zero center. As a kid, I used to enjoy pulling long sparks from the antenna lead to a water pipe ground when storms were around TILL the time I found myself on the other side of the room and wondered what happened. It was a shocking experience!!! An inexpensive solution to a potentially hazardous condition.

Jerry
W3CDE

-----Original Message-----

From: mjfitz@uswest.net [mailto:mjfitz@uswest.net]
Sent: Wednesday, July 18, 2001 8:40 PM
To: Low Power Amateur Radio Discussion
Subject: Big Wire
SNIP

Last night a big storm blew up from northcentral husker land and came this way while I watched from the garden. Huge lightning storm... As it approached, the K2 suddenly started gettin' goofy and jumping frequency... figuring it was NOW time to disconnect the wire and keeping my fingers away from the bare wire and connectors I dropped it to the ground, where it produced a spark about 2 inches long TO the ground. As the bare ends lay on the ground they sizzled and sparked like dud fireworks... got some water and poured around it so the dead grass wouldn't catch fire. Hot antenna, huh..?

Mike NOMF
Missouri Valley IA

Date: Thu, 19 Jul 2001 08:16:45 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "'plburbank@kih.net'" <plburbank@kih.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [103047] RE: WTB Tech Manual
Message-ID: <078F21595FA7D411B87B00805FA728E64A494C@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

You would be better off asking on the swap or forsake list.

Jerry
W3cDE

-----Original Message-----

From: Pete Burbank [mailto:plburbank@kih.net]
Sent: Wednesday, July 18, 2001 10:54 PM
To: Low Power Amateur Radio Discussion
Subject: WTB Tech Manual

I need a manual for a Tektronix 5L4N Spectrum Analyzer plug in.
Any body have one FS or know of a good source.
One of my goals in life is to discover the Black Hole where all missing
tech manuals reside.
A place I worked ordered a document shredder. How do you think they tested
the shredder?
Duh!
73 To All
Pete NV4V Kentucky
PS I think the black hole may also contain GDO coils. :-)

Date: Thu, 19 Jul 2001 08:20:53 EDT
From: K5BDZ@aol.com
To: w7zoi@easystreet.com, qrp-1@lehigh.edu
Subject: [103048] Ed fed wires
Message-ID: <11d.1df6ec2.28882aa5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Wes' comments on end fed wires in the field are very interesting.

For years I've used end fed wires with great success. The last was the
antenna (~70 feet with 9' high ~35' counterpoise) I threw up into a tree
outside our new house, and (like all the old QST stories of yore) my first
contact on 20 m was a VK who gave a 5x7 report to my 1 watt SSB signal.
Later loaded the wire up on 80 and regional contacts said I was an S7
compared to S9 signal of 1200 watt linear in the group.

Wes, as always, provides us with technical aspects, findings, and
measurements. Thanks Wes, I learn from your efforts more than the books!!

Personally, my portable longwire formula is like Grandma's "pinch and dab"
cooking...

My wire lengths are usually approximate, and depend on the height of the
tree. The counterpoise length is a little more "measured" and the coax is in
the garage hanging on a nail.

while others find fault, I find the fun with these methods.

Whatever rocks yer boat...right?
Bill K5BDZ

Date: Thu, 19 Jul 2001 08:24:03 EDT
From: K5BDZ@aol.com
To: K5BDZ@aol.com, qrp-1@lehigh.edu
Subject: [103049] Re: Ed fed wires
Message-ID: <11d.1df6ec3.28882b63@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Yes I do use a tuner. Usually L network
Bill K5BDZ

Date: Thu, 19 Jul 2001 07:41:20 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <n1bq@wulfdn.org>
Subject: [103050] Re: Final Cub Fox Log from KD5KXF
Message-ID: <001e01c11050\$1d3d28a0\$4800000a@nationwiderecovery.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is my final log from the Tuesday night July 17 Cub Fox Hunt and again I wish to thank everyone for the great time. Hopefully my next run I will have better conditions and double this pelt count!

0207	K0EVZ	559	ND	DOC	5W
0210	K7FD	559	OR	JOHN	5W
0212	N4ROA	559	VA	DAN	5W
0220	VA6RF	559	AB	EARL	5W
0222	KI0II	559	CO	RON	1W
0229	N0TK	559	CO	DAN	2W
0238	NB0W	559	NE	SCOTT	2W
0241	K4GT	559	GA	JIM	5W
0245	NV4V	559	KY	PETE	5W
0250	W0MC	559	CO	JERRY	5W
0259	WA2WMJ	559	NY	JULIAN	????
0307	KJ0C	339	MO	JIM	5W
0312	KC1FB	559	CT	JIM	3W
0320	N0TU	559	CO	STEVE	1W

0346 W3CD 339 CA BOB 5W
0349 K4FB 559 FL PAUL 5W
0352 N0RC 559 CO ROD 5W
0359 KD5KXF +20 TX MIKE 5W

Date: Thu, 19 Jul 2001 08:56:08 -0400
From: "ss lyon" <sslyon@megalink.net>
To: "QRP" <qrp-1@lehigh.edu>, "Bill Coleman" <aa4lr@arrl.net>
Subject: [103051] Re: Horizontal Loops vs Alternatives
Message-ID: <002b01c11052\$2f669820\$5d8798ce@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> On 7/17/01 10:22 AM, ss lyon at sslyon@megalink.net wrote:
>
> >I'll just conclude with
> >this: If you have the space and supports, put up the biggest and highest
> >loop you can and enjoy one of the very best wire antenna experiences.
>
Bill C. wrote:

(snip)

>
> My experience showed me that a 125 foot doublet at 45 feet was a better
> antenna all around than a 270 foot horizontal loop at 15 feet.
>
Absolutely no argument there, Bill. Almost any antenna at 45' will be
better than any antenna at 15'. I'm just encouraging those with the supports
available to try a Big Horizontal Loop.
72 / 73,
"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
FN44nj

Date: Thu, 19 Jul 2001 09:01:10 -0400
From: ed.kwik@delphiauto.com

To: qrp-1@Lehigh.EDU
Subject: [103052] Travel to DL
Message-ID: <05256A8E.00478635.00@notes.delphiauto.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

I will be on a business trip to Wuppertal Germany from 22 July to 1 August. I will have a very full work schedule but might have some free time. If there are any QRPers in the area I will be at the Mercure Hotel. The Michigan QRP net will be a no-net control net for the net two weeks.
AB8DF

Ed Kwik
Delphi Safety & Interior Systems
Office of Systems Engineering
Office phone: 248.655.8277
1401 Crooks Rd
Troy, MI 48064-7106
Mail Code: 480-009-120

Date: Thu, 19 Jul 2001 09:14:05 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <w7zoi@easystreet.com>, "chat qrp" <qrp-1@lehigh.edu>
Subject: [103053] Re: W7ZOI end fed... Nice Work!
Message-ID: <003301c11054\$b2167cc0\$5d8798ce@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for a good job nicely done, Wes. First time I've seen a work up on that subject. It provides some encouragement for more exploration -and application. In fact, I'll suggest to KD1JV that we tackle the kind of comparison he suggests.

Subject: Re: Half wave end fed question and LED SWR meter???

> Hi all,
>
> The current thread regarding the end fed halfwave antenna is a subject
> that has long interested me. But I have had the same questions that

> have been expressed here

Steve Webber wrote:

> It would also be interesting to make some relative field strength
> measurements, to see if there is any noticeable differences between
> using and not using a counter poise, and possibly different types of
> ATUs, such a link / tap coupled vs. cap coupled tuner.

72 / 73,

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
FN44nj

Date: Thu, 19 Jul 2001 07:28:02 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [103054] Re: WTB Tech Manual
Message-ID: <20010719.072803.-299779.0.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

My W7FG manuals catalog shows one in stock for 38 bux.
And his quality of manuals is excellent, by the way.
<http://www.w7fg.com/index.html>

73

Ray

"The more I see of the representatives of the people, the more I
admire my dogs." letter from Count d'Orsay to John Foster 1850
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78
MI-QRP 379QRP-ARCI 5784 NORCAL 1110, El Paso, (FAR WEST) TEXAS

Date: Thu, 19 Jul 2001 06:35:45 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp list" <qrp-l@lehigh.edu>, "elecraft list" <elecraft@qth.net>, "azqrp"
<azqrp@extremezone.com>
Subject: [103055] Tuthill 2001
Message-ID: <001101c11057\$b7647da0\$69127d3f@dell>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tuthill 2001 is just a bit over a week away, and if you haven't pre-registered, now is the time to do it! Here is a list of those who have already, and if you should be on it, please let me know right away.

Jim Varner AE6N
Ed Schnelback K6EAS
Ken AC6NG
Melissa Surrency KC7MML
Gary Surrency AB7MY
Ann Palmer KG6EDB
Dick Palmer WB6JDH
Wes Stewart N7WS
Linda Stewart
Jim Duffey KK6MC
Gary Bonebrake W5BI
Wilford Kauffman K6YEJ
Jay Miller WA5WHN
Judy Miller WB5LYJ
Bob Kimbrell AC7BN
Jim RitortoWB6NJA
LaNae Flowers KD6WLT
Tom Upton AD6N
Dave Yarnes W7AQK
Bertie Hightower N7XJW.
Bob Hightower NK7M
Roger Hightower N7KT
Leslie Hightower
Dave Kelley AI7R
Linda Kelley N7WMI.
Karl Hess WF5A
Doug Amos KT7C
Chuck Adams K7QO
Phyllis Adams
John Stevens K5JS
Dan Tayloe N7VE
Gerry Elam K7LR0
Robyn Elam
Mike Connor NQ7K
Gary Hembree N7IR
Linda Trujillo
Karl Larsen K5DI
Thomas Kuehl AC7A
Jim Cates WA6GER
Bill Walker KD7JZB
Doug Amos KT7C
Mark Gustoff W07T
Jack Reed WA7LNN

Mike Eaton, K5MJE
Greg Farkas, AK7Y
Betty Farkas
Sue Englehart KD5BYJ
Ed Englehart KD5BYK
Van Brollini NS6N
Mike Brollini N6NFY
Anthony Brollini KD7HVP
Renee Brollini
Kurt Kramer W7QHD
Michael Wyman W1DRY
John Kizar K8AJR
Tom Upton AD6N
Diana Upton
LaNae Flowers KD6WLT
Michael Flowers
James Serilla W7LM
Bob Okas- W3CD
Steve Schroder KI0KY
John Nystedt KJ7YN
Bob Rolfness W7AVK
Jim Lowman- AD6CW
Brian Kassel K7RE
Joanna Jones

Bob NK7M

Date: Thu, 19 Jul 2001 15:12:36 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [103056] Re: Im back HD crash
Message-ID: <00f601c11058\$7a9c13a0\$f98f01d9@ingo>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Wayne,

> ... I lost everything.

Hopefully not everything. ;o)
In any case you should still have your courage to the new start.
You can rebuilt your address file with a short mail to

listserv@Lehigh.EDU

with

recipients qrp-l

in the body (not in the subject).

gl es 72 de Ingo, DK3RED

E-Mail: dk3red@qsl.net - Homepage: www.qsl.net/dk3red

Date: Thu, 19 Jul 2001 14:20:52 GMT
From: Thomas Jennings <jennings@eznet.net>
To: qrp-l@lehigh.edu
Subject: [103057] WTB: Rohn Tower Section
Message-ID: <20010719142052.31412.qmail@eznet.net>
Mime-version: 1.0
Content-type: text/plain; charset="us-ascii"

Hi,
I am looking for 1 or 2 ten foot Rohn 25G tower sections.
Anybody have them for sale or knows of any around Rochester, NY?
I am willing to pick up if not too far!!
Thanks es 73
Tom, kv2x

Date: Thu, 19 Jul 2001 8:21:26 EST
From: bmurrey@amexol.net
To: qrp-l@Lehigh.EDU
Subject: [103058] WBR Errors
Message-ID: <200107191422.0AA13649@smtp1.amexol.net>
Content-Type: text/plain
Content-Disposition: inline
Content-Transfer-Encoding: binary
MIME-Version: 1.0

Hi gang...just got this from N1BYT

A few errors have crept into both the schematic and parts list for the WBR Receiver. Below is what I've found to date (7/18/01). Also, I've been told that the PWB from FAR Circuits is \$4.50.

Parts List Corrections

Q1 is a 2N3904

C14, C15 and C18 are all 2.2uF 16V electrolytic capacitors.

C22 is 0.1uF

Schematic Corrections

C19 (connected between R14 and Pin 5 of U2) should be 0.01uF. This is the first occurrence of C19.

The second occurrence of C19 between R15 and ground should be C20. The value is correct.

R17 should be R7

Regards,

Dan N1BYT

Date: Thu, 19 Jul 2001 09:24:25 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "QRP-1" <qrp-1@lehigh.edu>, "Adrian Weiss" <aweiss@usd.edu>
Subject: [103059] Re: Feedline...
Message-ID: <03db01c1105e\$a3428360\$0300000a@mcg.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

From: "Adrian Weiss" <aweiss@usd.edu>

> Scissors might be difficult. I'd position two nails the width of the
twinlead
> on a board, then position the tip of one of those orange-handle razors
> between them, and just pull the twinlead thru -- perfect straight cut.
Nails =
> guides.

I can't take credit for the idea I'm sure I read about it somewhere. As I mentioned you do need heavy-duty scissors. Tin snips work as well. If you're going to go to the trouble of making a jig, I'd suggest you use a couple strips of wood for guides and use two single edged razor blades spaced to cut a strip out of the center of the twinlead. You backpacker will like that, less weight.

But if it were me making the antenna, I'd use stranded wire for the antenna and solder the joints to the twinlead and make a little mold in modeling

clay and pot the T joint in 5 minute epoxy.

73 de Cla KA0GKC

Date: Thu, 19 Jul 2001 07:26:51 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp list" <qrp-l@lehigh.edu>, "elecraft list" <elecraft@qth.net>
Subject: [103060] New Kit Offering
Message-ID: <000901c1105e\$db3a8420\$ab127d3f@dell>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Arizona ScQRPions is offering a new kit, designed by Dan Tayloe N7VE. This kit is a CW audio Frequency Counter, dubbed the ScQRPions Stinger Singer.

Need a frequency counter for alignment, crystal matching or just to know where you are on that old analog dial setting? This one will do the trick. Small, easy to construct and operating from 5V DC, it will quickly become a valuable part of your workbench.

Based on a PIC 12C508A chip, programmed by Dan, this counter announces the frequency in CW at either 18 or 27 wpm. There are four modes, short (10's KHz, 1KHz and 100 Hz), long (complete freq down to 1 Hz), short repeat (same as short, but repeated indefinitely) and long repeat. There is also a filter mode, which gives you 1's KHz, "R", then 100's KHz. A programming button allows you to stop the process at any time.

Built on a quality printed circuit board, the entire circuit, including speaker and battery, fits into an Altoids or similar sized tin. It's small enough to fit into just about any rig in your shack, including the SMK-1. All parts, including sockets for both chips are included.

To order, please send a check for \$20.00 payable to Bob Hightower, to me at 1905 N. Pennington Drive, Chandler, AZ 85224-2632. Please include a return mailing label.

If you use PayPal, you may also order using that method of payment by sending a payment to nk7m@extremezone.com. Be sure to include your name and address in the memo section of the payment screen indicating that you are purchasing the SSS kit.

This kit is available now, and will be also be on hand at our booth at Fort Tuthill.

Prototype information is available on the web (ugly construction only at this time) so you may get further information. We'll add more in a couple of days. Go to <http://www.extremezone.com/~nk7m/cwafc.htm> for the text and pictures.

Thanks,
Bob Hightower NK7M
Az ScQRPions

Date: Thu, 19 Jul 2001 09:41:55 -0500
From: "William H. Launer" <wlauner@mail.win.org>
To: qrp-l@Lehigh.EDU
Subject: [103061] Re: Half wave end fed question and LED SWR meter???
Message-ID: <103130301b77c9cc975e2@[204.184.55.111]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've always used end-fed wire antennas for the lower hf bands. I'm no expert, but I've had good luck with them. My current antenna is a 100 ft. wire from the basement, out the window to the chimney, then to a tree in the back yard (yes, we have restrictive covenants, but I have a lot of trees!). I also have a 100 ft. counterpoise wire (insulated) snaked through the grass along my fence. It works very well on 80 and 40 meters. Of course, a tuner and an SWR meter are "musts" to match the antenna to the transmitter, but a small price to pay for successful operation.

One of the better references for wire antennas is Bill Orr's (W6SAI) "Radio Handbook". He explains the pro's and con's of a number of wire antennas in it (I have a copy of his 19th Edition, and it's not for sale!). His descriptions are practical and straightforward.

There are probably used copies of his books for sale at every hamfest in the country.

72/73,

Bill wb0cld

Bill Launer wb0cld
St. Charles, MO

Date: Thu, 19 Jul 2001 07:53:19 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [103062] Re: Half wave end fed question and LED SWR meter???
Message-ID: <009701c11062\$8d1927c0\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have used an end fed, half wave antenna (with counterpoise) and a DSW-20 for a backpacking rig for several years. I toss the end of the antenna into a tree trying to keep it as vertical as possible. The quarter wave long counterpoise is tossed onto the ground wherever it will fit. I have found that a parallel tuned circuit (
http://www.natworld.com/ars/pages/back_issues/2000_text/0100_text/film.html) works well to transform the high impedance into something the DSW-20 can accept.

=====
Bill Jones - <><
Sanger, California
=====

Date: Thu, 19 Jul 2001 10:53:04 -0500
From: "George, W5YR" <w5yr@att.net>
To: Jerry.Lofstead@itb.mckhboc.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [103063] Re: WTB Tech Manual
Message-ID: <3B570260.C7BAFE4D@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Contact a high-end test equipment maintenance/calibration shop and see if they won't sell you a copy. Usually they are willing to do this and the price might not be too unreasonable.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"Lofstead, Jerry" wrote:

>
> You would be better off asking on the swap or forsake list.
>
> Jerry
> W3cDE

Date: Thu, 19 Jul 2001 08:56:46 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "elecraft list" <elecraft@qth.net>, "qrp list" <qrp-l@lehigh.edu>
Subject: [103064] Re: New Kit Offering
Message-ID: <007101c1106b\$6ade8e80\$37127d3f@de11>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guess I confused some of the group with the wording in the first paragraph
"The Arizona ScQRPions is offering a new kit, designed by Dan Tayloe N7VE.
This kit is a CW audio Frequency Counter, dubbed the ScQRPions Stinger
Singer"

What it does, is announce the frequency, audibly, in CW :^). Sounded like it
announced only audio freqs, don't it? Sorry for that.

Bob NK7M

Date: Thu, 19 Jul 2001 11:09:24 -0500
From: "George, W5YR" <w5yr@att.net>
To: Bob Hightower <nk7m@extremezone.com>
Cc: elecraft list <elecraft@qth.net>, qrp list <qrp-l@lehigh.edu>
Subject: [103065] Re: [Elecraft] Re: New Kit Offering
Message-ID: <3B570634.82437AB5@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Words are funny things . . .

When I read your opening sentences I immediately thought that you had a device to simplify "zero beating" a received CW signal to an arbitrary beatnote/offset frequency!

There probably is a small market for that sort of device. A lot of the small rigs do not have a way to match the sidetone/beat frequency and some of us have trouble recognizing when a match has been made.

A device that would (a) emit an audio tone of the desired (programmable) frequency and (b) indicate when the received audio was at that frequency might find use in the QRP community.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Bob Hightower wrote:

>
> Guess I confused some of the group with the wording in the first paragraph
> "The Arizona ScQRPions is offering a new kit, designed by Dan Tayloe N7VE.
> This kit is a CW audio Frequency Counter, dubbed the ScQRPions Stinger
> Singer"
>
> What it does, is announce the frequency, audibly, in CW :^). Sounded like it
> announced only audio freqs, don't it? Sorry for that.

Date: Thu, 19 Jul 2001 09:17:07 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: w5yr@att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [103066] Re: [Elecraft] Re: New Kit Offering
Message-ID: <3B570803.6AFC0D98@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"George, W5YR" wrote:

>

> Words are funny things . . .
>
> When I read your opening sentences I immediately thought that you had a
> device to simplify "zero beating" a received CW signal to an arbitrary
> beatnote/offset frequency!
>
> There probably is a small market for that sort of device. A lot of the
> small rigs do not have a way to match the sidetone/beat frequency and some
> of us have trouble recognizing when a match has been made.
>
> A device that would (a) emit an audio tone of the desired (programmable)
> frequency and (b) indicate when the received audio was at that frequency
> might find use in the QRP community.
>

Interesting. But was it not Bob who designed such a device for the K2
.. with zero beat indicated by an LED? Admittedly, my memory of this is
rusty. I built one but never got brave enuff to scarf my K2 to install
it!

Phil W70X

Date: Thu, 19 Jul 2001 10:19:34 -0600
From: w0yse@juno.com
To: QRP-L@LEHIGH.EDU
Subject: [103067] No Feed Line: end fed
Message-ID: <20010719.101935.-183945.0.w0yse@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Gang,

Just wanted to share my experience with a NO FEED LINE antenna recently.
I was at a resort in Newport, OR a month ago with my 20 meter qrp rig
(MFJ9020) running between 3 and 4 watts and had a 10 to 15 minute qso
with JA6PA, Nao, in Kyushyu Japan. My antenna was a 3/4 wave piece of 24
gauge wire with a 1/4 wave wire randomly placed on the floor. No tuner,
and no transmission line, just an SWR meter to adjust the position of the
counterpoise on the floor. The far end of the wire was about 18 feet off
the ground. Granted, this is a one band antenna, but it is almost
invisible and is lighter than coax (or twin lead+tuner).

On the other hand, the EFHWA with a "tank" circuit like the one G3YCC had
on his website (and others) has worked great for me with a 67 foot wire.
I use taps on the coil to help be more versitile in various situations.

I have used this system for 10 thru 40 meters (including WARC bands by using one of the taps on the coil).

Why carry a feed line up the mountain if you dont have to!

72

Neil, w0yse, Utah

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<http://dl.www.juno.com/get/tagj>.

Date: Thu, 19 Jul 2001 12:23:39 -0400

From: "Mark J. Dulcey" <mark@buttery.org>

To: qrp-l@lehigh.edu

Subject: [103068] Radio Shack increasing prices on useful stuff...

Message-ID: <3B57098B.C29672FA@buttery.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I was in the local Radio Shack yesterday to pick up a couple of parts, and noticed that they are increasing their prices (substantially in some cases) on some small electronic parts. (For example, the packs of 5 1/4 watt resistors are going from \$0.49 to \$0.69; the 1/2 watt resistors are going from \$0.49 to \$0.79.) Here in Massachusetts, at least, the store has to give you the item at the price on the package, if it's lower, so people may want to get out and pick these things up now.

There are a few part assortments that I particularly recommend. All of these are assortments that contain KNOWN component values, rather than stuff tossed willy-nilly into the package.

#271-312 Assortment of 500 1/4 watt resistors \$7.99 - \$9.99

If you're starting out as a builder, this is a great way to get a good selection of these basic parts. The assortment includes all the 20% resistor values (they're the ones most often used), and gives you more of the most popular ones (including 30 each of 1K, 10K, and 100K). They also have a more limited assortment of 100 resistors (#271-308) for \$3.99, but I'd go for the big one.

#271-306 Assortment of 100 1/2 watt resistors (something less) - \$4.99

If you use these larger resistors regularly, you may want this

collection. In my experience, there's not much call for these in the typical QRP project, but you'll want this one if you work on tube radios or audio equipment, which generally use 1/2 watt rather than 1/4 watt resistors.

#271-309 Assortment of 50 1% metal film resistors \$2.29 - \$3.99

A big price jump here. This is a much more limited assortment, but still useful if you want to play with circuits that require precision components, such as multi-pole active audio filters.

#272-809 Assortment of 80 ceramic disc capacitors (something less; \$3.29, I think) - \$5.99

This one gives you all the small-value discs (the parts range from 1pf to 470pf) that are handy for VFO projects, RF bandpass filters, and the like. Alas, The Shack doesn't specify the temperature coefficient of these discs, so it's not clear if they're NPO caps or something else.

Please, let's not restart the thread on the evils of Radio Shack! On the other hand, if people out there have other favorite parts or collections of parts they would like to recommend, I'd like to hear about them; send me private mail, and I'll summarize the responses if I get any.

Date: Thu, 19 Jul 2001 09:42:59 -0700
From: "Dan McLaughlin" <danmclaughlin@lycos.com>
To: qrp-l@Lehigh.EDU
Subject: [103069] Re: Coil, tuner, or vee?
Message-ID: <LIHLPHOMFEFECAAA@mailcity.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Language: en
Content-Transfer-Encoding: 7bit

Scott,

Here is an interesting article by L.B. Cebik on using a 44' dipole as a multiband antenna. The advantage is a consistent radiation pattern for all bands. This makes for a practical all band rotatable dipole.

I don't know if hanging two feet of wire vertically off the ends of your Black Widows will create this effect but it may be interesting.

<http://www.cebik.com/aledz.html>

Have Fun.

Dan, KD5DET

Get 250 color business cards for FREE!
<http://businesscards.lycos.com/vp/fastpath/>

Date: Thu, 19 Jul 2001 09:08:54 -0700
From: Arthur G Silvers <ags@ieee.org>
To: Bruce Muscolino <w6toy@erols.com>
Cc: qrp-l <qrp-l@Lehigh.EDU>
Subject: [103070] Re: Half wave end fed question
Message-ID: <3B570616.8BC53308@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks, Bruce, for supporting the (not so) random wire alternative. Yes, a single conductor feeder does simplify things quite a bit. 85 feet overall, for example, provides a half wave on 40 and a full wave on 20 with a 19 foot feeder which is a little over 1/8 wave on 40 and 1/4 wave on 20. Using a counterpoise equal in length to the 19 foot feeder reportedly (and intuitively) should work pretty well. The only difference from the balanced feeder approach is that the standing waves on the balanced feeder won't radiate. At the 5 watt level, however, that shouldn't be a problem and I can save the cost of 300 ohm ribbon. Cool!

72,
Arth W6AGS

Bruce Muscolino wrote:

> Arth,
>
> Let me put in a commercial her for a slightly simpler installation that
> will do the same thing with a little bit less fuss with feeders.
>
> I have used an end fed wire for the last 20 years, 1981 to the present!
> A traditional end fed random wire, with the length varying between 40
> feet and 150 feet. I have used this system at two locations, first a
> condo with all the C.C.&R's, and then at my house, where we do have

> antenna restrictions.
>
> Fortunately I was never caught while living at the condo. I used magnet
> wire and when it blew down, about every 3 weeks, I just put up another!
> Here I use #14 Home Depot wire!
>
> In both installations ground has been provided by an MFJ Artificial
> Ground and a shortish piece of wire. I did have a full length
> counterpoise under the rug at the condo as well. There was no
> noticeable difference between it and the 8 foot piece of wire I use
> here.
>
> Maintenance is reduced. The antenna comes into the house and hooks to
> the tuner. with a simple banana plug! Ground is connected to the rig
> and the tuner. Works for me and I don't have to worry about where my
> feedline runs!
>
> 73

Date: Thu, 19 Jul 2001 13:12:34 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [103071] Zepp fed end fed wire
Message-ID: <fb.16ef9b86.28886f02@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Take about 60 ft of speaker wire. Remove about 33ft of one of the wires from
one end. You now have a zepp fed 33ft end fed wire. No radial really
necessary for adequate ops. Run the single wire as an endfed wire. Alan
KB7MBI

Date: Thu, 19 Jul 2001 13:20:02 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: ags@ieee.org
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [103072] Re: Half wave end fed question
Message-ID: <3B5716C2.5A21A414@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Arthur,

Having used an end fed wire for the past 20 years, I guess I am sort of in its corner. I don't worry if the wire is a quarter, half, or full wave or anywhere in between. To me the best part of an end fed wire is simply that it reaches from here to there! Of course I like not having a feedline to worry about. The only real difference that length makes is to your tuner and maybe a bit of directivity. I use wide range tuners and find directivity, that I can't easily change, is a negative! Good luck with you antenna!

73

Date: Thu, 19 Jul 2001 13:44:09 -0400
From: "Larry Spinner" <n2icz@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [103073] Re: Zepp fed end fed wire
Message-ID: <OE15qlngqQsrxrWfDOW000005c4@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Shouldn't this be connected to the balanced terminals on a tuner?

N2ICZ

----- Original Message -----
From: <ARDUJENSKI@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, July 19, 2001 1:12 PM
Subject: Zepp fed end fed wire

> Take about 60 ft of speaker wire. Remove about 33ft of one of the wires
from
> one end. You now have a zepp fed 33ft end fed wire. No radial really
> necessary for adequate ops. Run the single wire as an endfed wire. Alan
> KB7MBI
>

Date: Thu, 19 Jul 2001 12:54:20 -0500
From: "George, W5YR" <w5yr@att.net>
To: n2icz@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [103074] Re: Zepp fed end fed wire
Message-ID: <3B571ECC.7CF478CF@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Alan can verify this, but as I envision his antenna, it ends up being a 33 ft flat-top fed at one end with a "balanced line" 27 ft long. This line would be connected to the balanced output terminals of the tuner.

There will probably be some need to fiddle with the line length on various bands, depending upon the tuner. There will be some radiation from the line, depending upon frequency, etc. A ground or counterpoise on the tuner probably would help, but might not be necessary.

Sounds like a simple, small and light antenna for the field. The dimensions suggest that Alan had 20 meters in mind since the flat-top forms an end-fed half-wave on 20.

It would be an end fed full-wave on 10 and an end-fed non-resonant wire in between.

Interesting use of speaker wire! <:}

2/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Larry Spinner wrote:

>

> Shouldn't this be connected to the balanced terminals on a tuner?

Date: Thu, 19 Jul 2001 10:59:45 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: nk7m@extremezone.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, Elecraft <elecraft@qth.net>
Subject: [103075] Re: New Kit Offering
Message-ID: <3B572011.11A1FCB7@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>From the web site, it appears to be: "RF Frequency Counter with AF Morse Code Annunciation".

But that is a mouthful!

Phil W7OX

Bob Hightower wrote:

>
> Guess I confused some of the group with the wording in the first paragraph
> "The Arizona ScQRPions is offering a new kit, designed by Dan Tayloe N7VE.
> This kit is a CW audio Frequency Counter, dubbed the ScQRPions Stinger
> Singer"
>
> What it does, is announce the frequency, audibly, in CW :^). Sounded like it
> announced only audio freqs, don't it? Sorry for that.
>
> Bob NK7M

Date: Thu, 19 Jul 2001 13:54:38 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: n2icz@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [103076] Re: Zepp fed end fed wire
Message-ID: <3B571EDE.4625F23C@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Oh yes!

73

Date: Thu, 19 Jul 2001 14:05:45 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [103077] Re: Zepp fed end fed wire
Message-ID: <cf.969ab02.28887b79@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Yup! Connect to balanced line of tuner. Although designed primarily for 20m
it works equally well on 40 and 15 with a little more tuner compensation.
Alan KB7MBI

Date: Thu, 19 Jul 2001 11:28:21 -0700 (PDT)
From: mitchell Brad <n8yg@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [103078] Trade Unbuilt NC-20 for HW-qrp or PM-qrp
Message-ID: <20010719182821.81473.qmail@web14701.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi All, I am interested in trading one of unbuilt
NC-20's for something that I don't have.
Regards,
Brad N8YG

Do You Yahoo!?
Get personalized email addresses from Yahoo! Mail
<http://personal.mail.yahoo.com/>

Date: Thu, 19 Jul 2001 14:34:11 -0400 (EDT)
From: Stephan Greene <sgreene@patriot.net>
To: Dan McLaughlin <danmclaughlin@lycos.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [103079] Re: Coil, tuner, or vee?
Message-ID: <Pine.LNX.4.10.10107191426490.14998-1000000@tzion.greene.lan>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 19 Jul 2001, Dan McLaughlin wrote:

> Here is an interesting article by L.B. Cebik on using a 44' dipole as
> a multiband antenna. The advantage is a consistent radiation pattern
> for all bands. This makes for a practical all band rotatable dipole.

I'm trying a wire one in inverted-V configuration and so far it seems to
do OK on 40 and 20 (only bands I've tried) using 450-ohm ladder line feed,
a 4:1 balun (LDG) and the K1's internal tuner. This is my current
candidate portable/plop-and-drop camping antenna, using either a 20' PVC
mast (heavy) or and SD20 fishing pole as center support if suitable trees
aren't around.

> I don't know if hanging two feet of wire vertically off the ends of

> your Black Widows will create this effect but it may be interesting.

Get a 8' section of PVC (or aluminum, or a weather-treated board for that matter) as a center mount and use the overlap to support the fishing poles and still get "full length". Not sure how well the poles would stand up in a "permanent" installation, however. I'd brace them to minimize sagging.

I'm trying to imagine something like this as a field day antenna!

> <http://www.cebik.com/aledz.html>

Cebik also has a paper on an 88' version as a station backup antenna; the design criteria was long enough to work 80M and short enough to give a predictable radiation pattern on 20M. The 44' version is simply scaled with 40M and 10M as the "target" bands.

72

Steve

Stephan A. Greene sgreene@patriot.net
HAM: KA1LM@amsat.org QRP-L #232 Grid FM18hx 38 59'83.33"N 77 23'6.15"W

Date: Thu, 19 Jul 2001 12:23:04 -0600
From: "AB0CD" <ab0cd@uswest.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "cqclist" <CQCLIST@EGROUPS.COM>
Subject: [103080] CQC Great Colorado Goldrush-Low Down Date Correction
Message-ID: <000701c1107f\$da79f040\$a29ca0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

ATTENTION COLORADO QRP CLUB MEMBERS:

The date of The Great Colorado Goldrush Millennium Edition
was printed incorrectly in the current issue of The Low Down.

The CORRECT date is:

Saturday July 28, 2001

(time: 2000-2200 UTC; 20M CW only)

We hope to see you all of the air during this fun sprint.

Contest rules can be found at:

<http://www.cqc.org/cqctest.htm>

72 Dick AB0CD..

Date: Thu, 19 Jul 2001 14:55:38 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <sgreene@patriot.net>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [103081] I'm using the "EIGHTY EIGHT" Antenna...
Message-ID: <000701c11084\$67051b80\$5d8798ce@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

two of them at right angles, 60' up. Love 'em. Each has it's own tuner so I can switch between them to maximize signals. Both of them are fed via HB ladderline, one is 260' away. A great luxury having "a pair of eighty eights" -and being able to hold my own in any part of the globe. L.B. knows what he's talking about.

ps

Even so... still working on the trees for the "Big Momma Loop Redux" !

72 / 73,

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
FN44nj

> > <http://www.cebik.com/aledz.html>

>

> Cebik also has a paper on an 88' version as a station backup antenna; the
> design criteria was long enough to work 80M and short enough to give a
> predictable radiation pattern on 20M. The 44' version is simply scaled
> with 40M and 10M as the "target" bands.

>

> 72

> Steve

>

> -----
> Stephan A. Greene sgreene@patriot.net
> HAM: KA1LM@amsat.org QRP-L #232 Grid FM18hx 38 59'83.33"N 77 23'6.15"W
> -----
>

Date: Thu, 19 Jul 2001 12:31:52 -0600
From: "AB0CD" <ab0cd@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>, "cqclist" <CQCLIST@EGROUPS.COM>
Subject: [103082] CQC NUMBER IS A MULTIPLIER IN THE GOLDRUSH
Message-ID: <000f01c11081\$14bada20\$a29ca0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

CQC NUMBER IS A MULTIPLIER IN THE GOLDRUSH

A reminder....

A Colorado QRP Club number is a multiplier in the upcoming Great Colorado Goldrush Sprint (Sat. July 28 from 2000 to 2200 UTC 20 meters CW only).

There's still time to get your CQC number by joining via our website:

<http://www.cqc.org/cqcsubs.htm>

If you do this and want to get a number before the contest we will expend great energy to email you your new CQC number. Please notify BOTH Dave Cleveland at KI0ND.arrl.net and me at AB0CD.arrl.net (as a backup) and we will move the Rockies to get you a number in time. But do this by Friday, July 27, 5 pm MDT.

With or without a CQC number, the Goldrush proves to be a fun sprint. Let's see how many QRPers we can cram onto our little segment on 20 meters.

For contest rules:

<http://www.cqc.org/cqctest.htm>

CUS es 72 Dick AB0CD..

Date: Thu, 19 Jul 2001 15:06:15 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <w5yr@att.net>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [103083] Zepp fed end fed: Does J-POLE ring a bell?
Message-ID: <003101c11085\$e24a4ee0\$5d8798ce@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Note that we're talking about here is a J-Pole, essentially, and there have been lots of work ups on those we can consult.

72 / 73,

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
FN44nj

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel, Me, 04217 U.S.A.
207-836-2576

----- Original Message -----

From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, July 19, 2001 1:54 PM
Subject: Re: Zepp fed end fed wire

> Alan can verify this, but as I envision his antenna, it ends up being a 33
> ft flat-top fed at one end with a "balanced line" 27 ft long. This line

Date: Thu, 19 Jul 2001 15:41:14 -0400
From: Ken Newman <N2CQ@citnet.com>
To: epaqrp-1@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org, n9avg@amsat.org
Subject: [103084] [CONTEST] QRP Contest Calendar - July 19/31
Message-ID: <3.0.6.32.20010719154114.00911b90@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

~~~~~  
QRP CONTEST CALENDAR

July 19-31, 2001

~~~~~  
Summer Fox Hunts - 20 Meters CW QRP - Fri 0200z - July & August

Details: <http://www.mtechnologies.com/cqc/sfox/index.htm>
~~~~~

Summer CUB Fox Hunts - 20M CW QRP - Wed 0200z - July 4 thru Sep 5

Details: <http://www.wulfden.org/SummerCubFox/>  
~~~~~

AGCW-DL QRP Summer Contest (CW) ... QRP Contest!

Jul 21 - 1500z to Jul 22 - 1500z

Rules: <http://www.agcw.de/>

"More QRP Summer Fun"
~~~~~

Georgia QSO Party (CW/SSB) ... QRP Category

Jul 21 - 1800z to Jul 22 - 0359z

Jul 22 - 1400z to Jul 22 - 2359z

Rules: <http://secc.contesting.com/page3.html>

"Work GA Counties. Excellent Awards"  
~~~~~

North American QSO Party (RTTY)

Jul 21 - 1800Z to Jul 22 - 0600Z

Rules: <http://www.ncjweb.com/>

"FYI.. 150 watt RTTY operation"
~~~~~

\*\*\*\*\*CANCELLED DUE TO HOOF & MOUTH CRISIS\*\*\*\*\*

RSGB Low Power Field Day (CW) ...QRP Contest!

Jul 22 - 0900z to 1200z (80 M)

Jul 22 - 1300z to 1600z (40 M)

Rules: <http://www.g4tsh.demon.co.uk/HFCC/Rules-2001/lowpower.htm>

"Outdoor Fun for the Serious QRPer"

~~~~~  
RUSSIAN RTTY WW CONTEST

Jul 28 - 0000z to Jul 29 - 2400z

Rules: <http://www.sk3bg.se/contest/russrtty.htm>

"FYI.. QRO RTTY. All bands"

~~~~~  
Venezuelan Independence Day Contest (CW)

Jul 28 - 0000Z to Jul 29 - 2400Z

Rules: <http://www.sk3bg.se/contest/yvdx.htm>

"Work YV and anyone else"

~~~~~  
Islands On The Air Contest (CW/SSB)

Jul 28 - 1200z to Jul 29 1200z

Rules: <http://www.g4tsh.demon.co.uk/HFCC/IOTA.htm>

"IOTA DXpeditions Encouraged"

~~~~~  
Flight of the Bumblebees (CW) ... QRP Contest!

Jul 29 - 1700z to 2100z

Rules: [http://www.natworld.com/ars/pages/bumblebees/bb\\_rules.html](http://www.natworld.com/ars/pages/bumblebees/bb_rules.html)



"Most outrageous venture for QRP Portable"

~~~~~

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and we will post it and give it more publicity.
Anyone may use this "QRP Contest Calendar" for your website, newsletter, e-mail list or other media as you choose.
(Include a credit to the source of this material of course.)

72 de **** QRP Contest Calendar ****
Ken Newman - N2CQ <http://www.njqrp.org/data/contesting.html>
N2CQ@ARRL.NET <http://www.n3epa.org/Pages/Contest/contest.htm>

72 de == QRP CONTEST CALENDAR ==
Ken Newman - N2CQ <http://www.njqrp.org/data/contesting.html>
Woodbury, NJ
N2CQ@ARRL.NET

Date: Thu, 19 Jul 2001 20:23:06 +0100
From: Larry Cahoon <lejek@erols.com>
To: k7fd@hotmail.com, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>, elecraft@qth.net
Subject: [103085] Re: Results: K1 Battery Test
Message-ID: <5.0.2.1.0.20010719200935.009fe7a0@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

John,

I like this kind of testing, good job and I hope to see more of it. Nothing like the real world to show you what the batteries can do.

I do have a couple of comments.

On the 10 cell tests, the NiMH batteries are considered fully discharged when the read 1.0 volts under load. It is best not to go beyond this as you risk damaging the batteries. So I would have cut that test off at 10 volts total.

The numbers on the 8 cell test don't quite add up to me. The same may apply to the 10 cell test but I'm not sure. As I read the 8 cell test you basically ran for about 10 hours on Rx only, and about another 2 hours on Tx. I may be overstating the Tx a bit but that doesn't really make a difference in my analysis. It only makes the data more puzzling. The K1 draws about 55-60 mAh on Rx, so that should consume a max of 600 mAh from the batteries. That leaves another 1000 mAh for the 2 hours on Tx. Now with a QSO and a 50% duty cycle on Tx I figure that leaves another 120 mAh max for the additional Rx time, bringing the total to 720 mAh. So for a half hour on keydown you had to use 880 mAh. That is drawing current at 1.7 Amps. That is a lot more than the K1 uses. So I'm a bit puzzled, is the that the batteries were not fully charged, they were not fully used when you quit? I'm not sure.

Sure makes me want to see more data. I wouldn't mind you running the same test a few times and see what happens.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

At 07:31 PM 07/18/01 -0700, N7SG K7FD wrote:

>Notes: (K1 keydown voltage readings throughout the day)

>

>Time	Keydown V (10 cell)	Keydown V (8 cell)
>7:00am	12.6	9.9
>12 noon	11.9	9.4
>5:00pm	11.7	9.2
>6:00pm	11.3	9.0
>6:20pm	-	8.2-7.5...
>7:00pm	11.1	
>8:00pm	10.8	
>9:00pm	8.8	
>9:20pm	8.2-7.5...	

Date: Thu, 19 Jul 2001 13:37:19 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: lejek@erols.com, qrp-l@Lehigh.EDU
Cc: elecraft@qth.net
Subject: [103086] Re: Results: K1 Battery Test
Message-ID: <F246iGXix4A2DreBBsQ00000bc9@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

WD3P said:

>On the 10 cell tests, the NiMH batteries are considered fully discharged
>when they read 1.0 volts under load. It is best not to go beyond this as
>you risk damaging the batteries. So I would have cut that test off at 10
>volts total.

I think this is a good idea! Especially given the cost of the cells!

>The numbers on the 8 cell test don't quite add up to me.

Larry, I am also puzzled by the 'rapid depletion' of the 8 cells; they were fully charged when I started at 7am. I was running 3.5w, on the high side for the 8 cells according to Wayne. Maybe this came into play. I do plan on trying this test a few more times, just to see if it's a fluke or the real thing. This morning I put ten 1800mAh cells in the K1, turned it on, and left for work. I'll see how 'far' I get tonight at 3.5w...hopefully through the fox hunt, hi!

Thanks for the note,

73 John K7FD

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Thu, 19 Jul 2001 17:40:54 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <anthony@pacinfosb.com>, <qrp-1@Lehigh.EDU>
Subject: [103087] End fed half wave and Zepps
Message-ID: <00a501c110a3\$def311f0\$4e100a0a@rohredt2000>

To answer those end feed and Zepp questions:
There are some interesting points made in Les Moxon's book on the Zepp or end fed dipole, using balanced line.

Indeed this antenna fed against local earth can be quite different than one fed against a counterpoise or radial(s).

Moxon maintains that this end Zepp feed "does not work" and outlines counterpoise solutions for it. I think the variable results many report over the years with a Zepp antenna all goes back to: at what elevation and over what kind of ground conductivity and near field conductors is the Zepp being used?

An unbalanced or end fed antenna is painfully susceptible to its environment, especially if less than a half wave long. I have had unsuccessful single wires from quarter wave to 400 feet long. Unsuccessful meaning that I did not get radiation in more than one direction, and did not get much skip in directions where there were hams to QSO. Both versions were over extremely poor ground, a desert under the quarter wave; and the tropical urban area of Malaysia in a sandy tin bearing district for the other. Unfortunately, for me, the tin bearing soils were some miles from my QTH. And I lacked knowledge of counterpoises at that time.

When you consider an end of a half wave is several thousand ohms in practical installations, and the other side of a balanced feeder to a Zepp theoretically is an open circuit, it appears you have removed balance as a line characteristic, and the second conductor becomes part of the antenna. I think this is what Moxon stated as well. In the high impedance case, certainly the line could couple and become part of the radiating system. The other point Moxon makes is the Zepp has critical feedline lengths, and this is what is likely happening to the person having trouble using a counterpoise. Change the feeder length and use a resonant counterpoise for the lowest band, and likely things will behave over that ground. It can change if the antenna is moved over different ground environments.

As to when this also happens to an OCF, I think the usual use of two conductors to feed the modern version of the Windom, (which historically was a single wire fed OCF), usually results in feedline radiation as part of the pattern. Some makers cite this as a "feature" as in the Carolina Windom. And for some areas, it might be useful, but in urban clutter of nearby conductors it seems it would couple some radiation. The objective with an OCF is to find some point to feed it with low SWR for the most bands of interest, and this might also be limited to not getting too close to the end, and thus out of balance beyond X percentage of length.

Cebik and others have figures for how much a dipole could be shortened less than a half wave and still function with good efficiency. Likely, the OCF point also happens to have a critical value, and that may well be the percentage that Orr and others have cited as how far down the flat top to feed an OCF and still have it function somewhat like a dipole. See Bill Orr's extensive section on the OCF versions in his last Antenna Handbook.

I know Chuck Adams used to give high marks to his OCF up in North Tx and that N. Tx had much better ground conductivity than I have in Central TX. You do not hear much of OCF use around here, and I suspect ground RF quality is very much a factor.

I have had very good results with center fed dipoles over my single wires, and with home made variant of the G5RV, with ladder line coming off 40 feet horizontally from the center feed. This was because I could not put it 40 feet high. I call this the ZS6BKW/K5KVH, as it is an RV optimized by BKW

for the WARC bands to be included. I was the first to utilize the balanced line portion as part of the flat top, to form a "T".

Even better results, when you have the room, is had from Inverted Double Extended Zepp use, (IDEZ). This is a 5/8 leg doublet, and has gain on both fundamental resonance and more on higher bands. Center is placed 30 to 40 feet up. It will be a near omni antenna with gain on all bands. Lobes on higher bands of the traditional horizontal Zepp appear to fill in when you drop the legs. It was good for both short skip and for DX.

And my recent great FD experience with a large square loop leaves me wanting one all around the perimeter of my lot. We had one on a football practice field 849 feet around, but only 20 feet high, and it modeled with both high angle and low angle lobes that were ideal for all around FD use. With it we did 67 ARRL sections without any effort to get QSOs. Stations would come back (on SSB 5 watts) on our first call to them. The low horizontal large loop, greater than one wave at lowest band, is a much underutilized antenna, and works better than rumor had it. As in the case with the above doublets, you have to feed with balanced or twin lead line, and use a trans match, but this is expected for most antennas to cover a band today.

Hope the above is helpful in the antenna quest we all do.
Stuart K5KVH

Date: Thu, 19 Jul 2001 18:40:34 -0400
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: qrp-l@lehigh.edu
Subject: [103088] HP Calculators
Message-ID: <3B5729A2.19152.266E2E@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Anyone into HP calcs?

HP is running a special offering \$75 rebates on the 48gx and the 49. You can find the 48gx on the net for \$125 plus \$13 shipping giving a net cost fo ownership of \$63. The calculator has an IR port, can take memory cards and has a big dedicated equation library. Only drawback is the 125k of memory.

I am still deciding whether I want to invest in one myself.....so far I really like my 89.

Date: Thu, 19 Jul 2001 15:46:56 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "qrp list" <qrp-l@lehigh.edu>, "elecraft list" <elecraft@qth.net>
Subject: [103089] RE: New Kit Offering
Message-ID: <001f01c110a4\$b77d2ec0\$60127d3f@dell>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Information on the specifications and operation of the Stinger Singer
Frequency Counter are not at <http://www.extremezone.com/~nk7m/cwaafc.htm>

Ordering info is at <http://www.extremezone.com/~nk7m>

Bob NK7M

Date: Thu, 19 Jul 2001 17:50:23 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-l@Lehigh.EDU>, <tentec@contesting.com>
Subject: [103090] Final transistors for the Ten Tec 50x class transceivers
Message-ID: <00ae01c110a5\$322d1c70\$4e100a0a@rohredt2000>

Some time ago, the original transistors used in the 505 became obsolete, it was said. The Ten Tec list reported the 2N3553 could be used for a replacement final, (two are required). But, the once common 2N3553 is also hard to come by.

I notice on Questlink, a EE resource web page, that Philips Semiconductors are listed as manufacturing the 2N3553. Hopefully, they still distribute them. Philips is a world wide manufacturer, thus there should be many distributors scattered around with this product.

Hope this is helpful, and you might file this if you are interested in 5w class RF transistors. This one is a can type transistor.
Not sure if it was TO 5 or TO 39 size, but anyway, you get the idea.
-Stuart K5KVH

Date: Thu, 19 Jul 2001 17:58:42 -0500

From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Louis Hlousek" <lhhousek@nvhbell.net>, <qrp-l@Lehigh.EDU>
Subject: [103091] toroids vs. air core, auto transform vs. link
Message-ID: <00b601c110a6\$5b6ab560\$4e100a0a@rohredt2000>

Lou,
the issue of toroid vs. air core mainly comes down to smaller size in the toroid of a given inductance vs. the air core coil. Usually, today, with transistor gear, you do not need the high Q used in tube days. Air core coils can be constructed to have Q in the hundreds. Even so, consider the tube final often was designed for a Q of 12 to 15, thus a toroid would even work there, if the high voltage considerations could be met.

Now, the two winding coil of either type is going to have more isolation between the windings than the auto transformer design. This might be useful in attenuating harmonic pass thru. The auto transformer has common ground issues that could be eliminated by the balanced and ungrounded secondary link coil construction if need be.

Thus, there are two ways to do the same inductive function, but the other circuit needs might be better served by the isolation of windings.

72,
Stuart K5KVH

End of QRP-L Digest 2255

